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Operations

**ELECTRONIC WARFARE INTEGRATED
REPROGRAMMING AND NOTIFICATION
PROCEDURES**

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This instruction implements Air Force Policy Directive (AFPD) 10-7, *Command and Control Warfare*. It establishes procedures for a timely, accurate, and effective response to the Electronic Warfare Integrated Reprogramming (EWIR) process IAW Air Force Instruction (AFI) 10-703, *Electronic Warfare Integrated Reprogramming*. This instruction applies to all wing organizations with electronic warfare or inter-base communication responsibilities. **Attachment 1** is a list of abbreviations, acronyms, and terms used in this instruction. Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with AFMAN 27-123, Management of Records, and disposed of in accordance with the Air Force Records Disposition Schedule (RDS).

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1. General.

1.1. EWIR is a communication intensive process, requiring close interaction with multiple wing agencies and is directed by the 31 Operational Support Squadron (OSS) Electronic Combat Pilot (ECP).

1.2. EWIR is developed and implemented through PACER WARE and SERENE BYTE Messages from the Air Warfare Center (AWC) and HQ USAFE/DOTW. PACER WARE is the unclassified term for an actual change or notification of a deficiency to an Electronic Warfare (EW) system. SERENE BYTE is the unclassified term for an exercise change or deficiency notification to an EW system. This instruction governs how the 31 FW will respond to an EWIR Message.

1.3. During contingency operations or periods of increased operations tempo the 31 OSS ECP may request a waiver letter from the 31 Operations Group Commander (OG/CC) excusing the 31 FW from participating in SERENE BYTE exercises. The ECP will then distribute copies of this waiver letter to all 31 FW agencies responsible for EWIR notification or processing.

1.4. Successful EWIR implementation requires a continuous flow of information between all participants. All 31 FW units affected by an EWIR implementation will maintain contact with the 31 OSS ECP.

2. Notification.

2.1. [Attachment 2](#) shows a flow chart schematic of the notification process for an EWIR Message.

2.2. Upon receipt of an EWIR Message the Base Communication Center will ensure that the Command Post also received the message. The Command Post will then immediately notify the 31 FW Maintenance Operation Control Center (MOCC) and the 31 OSS ECP. If the 31 OSS ECP cannot be contacted, the Command Post will then contact an alternate listed on the OSS PACER WARE/SERENE BYTE recall roster.

3. EWIR Message Types.

3.1. The four primary EWIR Message types are listed in AFI 10-703.

4. 31 FW EWIR Response.

4.1. Upon receipt of a Serene Byte/Pacer Ware message, Command Post personnel will immediately notify the ECP and MOCC via telephone. Only the unclassified title will be passed over the telephone. Additionally, during telephonic notification the Command Post will also advise on the methods of dissemination available (NIPRNET, SIPRNET, Hardcopy (except for the MOCC, AUTODIN receipt will require pick-up). The Command Post will log the time and name of the ECP/MOCC personnel notified. ECP and MOCC action will be depended upon the EW system listed in Appendix A (or Appendix B when supporting deployed CAF units during contingency operations), then the ECP and MOCC will take the following actions:

4.1.1. SIM:

4.1.1.1. The 31 OSS ECP will immediately download the message using secure electronic means. After reviewing the message the ECP will give copies to the Wing Weapons Officer, each squadron's ECP and Weapons Officer, as a last resort, the ECP will leave a copy of the message with the squadron Top-Three. During contingency operations the ECP will immedi-

ately notify the 31 OG/CC. Otherwise, the ECP will notify the 31 OG/CC as soon as possible during normal duty. In all cases the 31 OSS ECP will research and advise the 31 OG/CC of all available options to counter or minimize the identified EW shortfall.

4.1.1.2. The 31FW MOCC will immediately notify the fighter squadrons' Production Supervisors who in turn will immediately notify their designated Avionics Specialist personnel. The MOCC will also notify the primary or alternate POC from the 31 OSS/OSOB (31 FW Avionics Manager) using the recall roster supplied by the 31 OSS/OSOB. MOCC will record the time and name of each person notified. If the maintainers in the fighter squadrons cannot download the message using secure electronic means then the squadrons are responsible for dispatching a courier to pick up the EWIR message from the MOCC. If the message concerns the ALQ-131 Electronic Counter Measures (ECM) pod then the MOCC will also immediately notify the 31 MXS/MXMVW. If the 31 MXS/MXMVW cannot download the message using secure electronic means then the 31 MXS/MXMVW is responsible for dispatching a courier to pick up the EWIR message from the MOCC.

4.1.2. RIM:

4.1.2.1. The 31 OSS ECP will download the message using secure electronic means as soon as practical. Immediate action is not required. For example, if notified in the evening or on the weekend, then the ECP will download the message first thing the next day. After reviewing the message the ECP will notify the 31 OG/CC, 31 Maintenance Group (MXG)/CC, Wing Weapons Officer and each squadron's ECP or Weapons Officer and provide them a copy of the RIM if needed. A RIM logically precedes an IMP. Therefore, the ECP will contact HQ USAFE/DOTW and ask if an IMP will follow the RIM. If so, the ECP will advise the Wing Weapons Officer and instruct the squadrons' ECP/Weapons Officer to have their maintenance personnel download the appropriate software from the Multi-Service EW Data Distribution System (MSWEDDS) and be prepared to reprogram the affected EW system.

4.1.2.2. The 31FW MOCC will respond identically to a RIM as described earlier for an EWIR SIM.

4.1.3. MIM or TCT Message:

4.1.3.1. The 31 OSS ECP will immediately notify the Wing Weapons Officer and each squadron weapons officer or ECP and read them the unclassified EWIR message title. If the squadron does not require further assistance then the 31 OSS ECP will treat this message as a RIM. If the MIM or TCT Message requires further clarification then the 31 OSS ECP will coordinate with HQ USAFE/DOTW for clarification.

4.1.3.2. The 31FW MOCC will respond identically to a MIM or TCT Message as described earlier for an EWIR SIM.

4.1.4. IMP:

4.1.4.1. The 31 OSS ECP will immediately notify the 31 OG/CC. The ECP will then notify the Wing Weapons Officer, each squadron's ECP and Weapons Officer. If none is available, then as a last resort the ECP will notify the squadron Top-Three. Prior to reprogramming the ECP will ensure the squadron's ECP or Weapons Officer is aware of all changes to the affected EW systems. Once reprogramming begins, the ECP will work directly with the 31 OSS/OSOB to facilitate a timely and efficient reprogramming process. The ECP will notify and keep the

31 OG/CC and the Wing Weapons Officer informed of the reprogramming status. Once reprogramming is complete for the 31 FW the ECP will submit an ULM (Unit Load Message) within 72 hours to HQ USAFE/DOTW. The ECP will include the appropriate offices at the 53 WG and 16 AF as information recipients when sending the ULM. The ULM will state the 31 FW is in compliance and will give the completion time and any problems encountered. Finally, the ECP will notify the 31 OG/CC and 31 OSS/CC when all reprogramming is complete and RIM is complied with HQ USAFE/DOTW.

4.1.4.2. The 31FW MOCC will respond in an urgent manner to an IMP using the procedures described earlier for an EWIR SIM. In addition, the MOCC will record the start and completion time of the first and last 31 FW aircraft modified. *MOCC will also notify the ECP of completion of reprogramming.

5. Responsibilities.

5.1. 31 OSS/OSK Electronic Combat Pilot (ECP) will:

- 5.1.1. Act as the overall coordinator and single POC for implementation of all 31 FW EWIR activities. This will include reprogramming of deployed aircraft, if required.
- 5.1.2. Act as the OPR for this EWIR Instruction and distribute changes.
- 5.1.3. Direct the EWIR Action Team and convene the Team as required to review and update EWIR procedures.
- 5.1.4. Review pilot and intelligence inputs to include OPREPs and MISREPs for potential EW system deficiencies and prepare an OCR when discrepancies identified.
- 5.1.5. Keep pilots informed on current and reprogrammed EW equipment and their capabilities by publishing and briefing the contents of the latest RIMs and SIMs.
- 5.1.6. Maintain a current listing of operational and training software and MD for EW systems.
- 5.1.7. Consolidate all agencies' reports and prepare a 31 FW After Action Report for HQ USAFE/DOTW within three days of reprogramming termination.
- 5.1.8. Ensure Command Post retains the latest copy of the EWIR Pacer Ware Recall roster.
- 5.1.9. Conduct local exercises as necessary to maintain continuity of the EWIR system.
- 5.1.10. Operate IAW this instruction and [Attachment 3](#).

5.2. 31 FW Communications Squadron will:

- 5.2.1. Ensure all Base Communications Center personnel are aware of applicable EWIR documents and checklists.
- 5.2.2. Operate IAW this instruction and [Attachment 4](#).

5.3. 31 FW Command Post will:

- 5.3.1. Immediately notify the 31 FW MOCC and the 31 OSS ECP or designated alternate of an EWIR message.
- 5.3.2. Ensure all Command Post controllers and mission directors are aware of applicable EWIR documents and checklists.

5.3.3. Develop a checklist IAW this instruction and [Attachment 5](#) to respond to SERENE BYTE/PACERWARE messages.

5.4. 31 FW Maintenance Operations Control Center (MOCC) will:

5.4.1. Ensure personnel operating in the MOCC are aware of all applicable EWIR documents and checklists.

5.4.2. Operate IAW this instruction and [Attachment 6](#).

5.5. 31 MXS/MXMOVW (EWS) will:

5.5.1. Ensure all personnel assigned are familiar with all applicable EWIR documents, procedures, and operating instructions.

5.5.2. Provide a list of personnel cleared for classified message pick-up to the MOCC and ensure the list is current.

5.5.3. Implement EWIR changes only when directed by the 31 OSS ECP or designated alternate.

5.5.4. Advise the 31 OSS ECP of all PACER WARE / SERENE BYTE activities.

5.5.5. Submit a current report of all reprogramming events to the 31 OSS ECP within one day of reprogramming termination.

5.5.6. Ensure all equipment involved with reprogramming is tested every 90 days and notify the 31 OSS ECP of any deficiencies.

5.5.7. Maintain the minimum number of systems properly loaded to comply with Euro Lightning standards when requested by 31 OSS ECP.

5.5.8. Operate IAW this instruction and [Attachment 7](#).

5.6. 510/555 FS/MA will:

5.6.1. Ensure all supervisors and avionics specialist personnel review applicable EWIR documents, procedures, and operating instructions.

5.6.2. Provide a list of personnel cleared for classified message pick-up to the MOCC and ensure the list is current.

5.6.3. Implement EWIR changes when directed by the squadron ECP or designated alternate.

5.6.4. Notify the squadron ECP or designated alternate of any EW reprogramming problems or discrepancies encountered.

5.6.5. Ensure all equipment involved in reprogramming is updated with newest PACERWARE and tested every 90 days and notify the 31 OSS ECP of any problems, this includes the CAPRE and EDNA machines.

5.6.6. Operate IAW this instruction and [Attachment 8](#).

5.7. 510/555 FS/ECP will:

5.7.1. Review all applicable EWIR documents, procedures, and operating instructions.

5.7.2. Submit an After Action Report of all squadron-reprogramming events to the 31 OSS ECP within one day of reprogramming termination.

5.7.3. Operate IAW this instruction and [Attachment 9](#).

5.8. 31 OSS/IN will:

5.8.1. Provide the 31 OSS ECP with threat changes that impact EW systems and include this information, along with RIMs and SIMs, in mission and pilot briefings.

5.8.2. Review pilot debriefings and mission reports for unusual EW equipment operation that could indicate a potential threat change.

5.8.3. Assist the 31 OSS ECP in preparing OCRs.

5.8.4. Report unusual findings in MISREPs.

5.8.5. Operate IAW this instruction and [Attachment 10](#).

5.9. 31 OSS/OSOB will:

5.9.1. Ensure all 31 OSS/OSOB personnel are aware of applicable EWIR documents and check-lists.

5.9.2. Operate IAW this instruction and [Attachment 11](#).

6. 31 FW Organization.

6.1. All 31 FW organizations will ensure that all personnel involved in EW reprogramming are familiar with this instruction.

WILLIAM R. BECKER, Colonel, USAF
Commander

Attachment 1**GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****Abbreviations and Acronyms***

AWC—Air Warfare Center
BCC—Base Communication Center
CAF—Combat Air Force
CMDS—Counter Measures Dispenser System
CP—Command Post
DAT—Data Message
DCS—Digital Computer System
DTG—Date/Time Group
ECM—Electronic Counter Measures
ECP—Electronic Combat Pilot
EDNA—Enhanced Diagnostic Aid
EOB—Electronic Order of Battle
ERC—Emergency Reprogramming Center
EW—Electronic Warfare
EWIR—Electronic Warfare Integrated Reprogramming
EWS—Electronic Warfare Shop
FS—Fighter Squadron
IAW—In Accordance With
ILSE—Intermediate Level Support Equipment
IMP—Implementation Message
MD—Mission Data
MIM—Maintenance Instruction Message
MISPREP—Mission Reports
MLV—Memory Loader Verifier
MOCC—Maintenance Operation Control Center
MSEWDDS—Multi-Service Electronic Warfare Data Distribution System
MXG—Maintenance Group
NCOIC—Non-Commissioned Officer In Charge
OCR—Operational Change Request

OG—Operations Group

OI—Operation Instruction

OPREP—Operational Report

OSK—31 OSS Weapons and Tactics

OSOB—31 FW Avionics Manager

OSS—Operations Support Squadron

POC—Point of Contact

RIM—Reprogramming Impact Message

RWR—Radar Warning Receiver

SIM—System Impact Message

SIPRNET—Secure Internet Protocol Routing Network

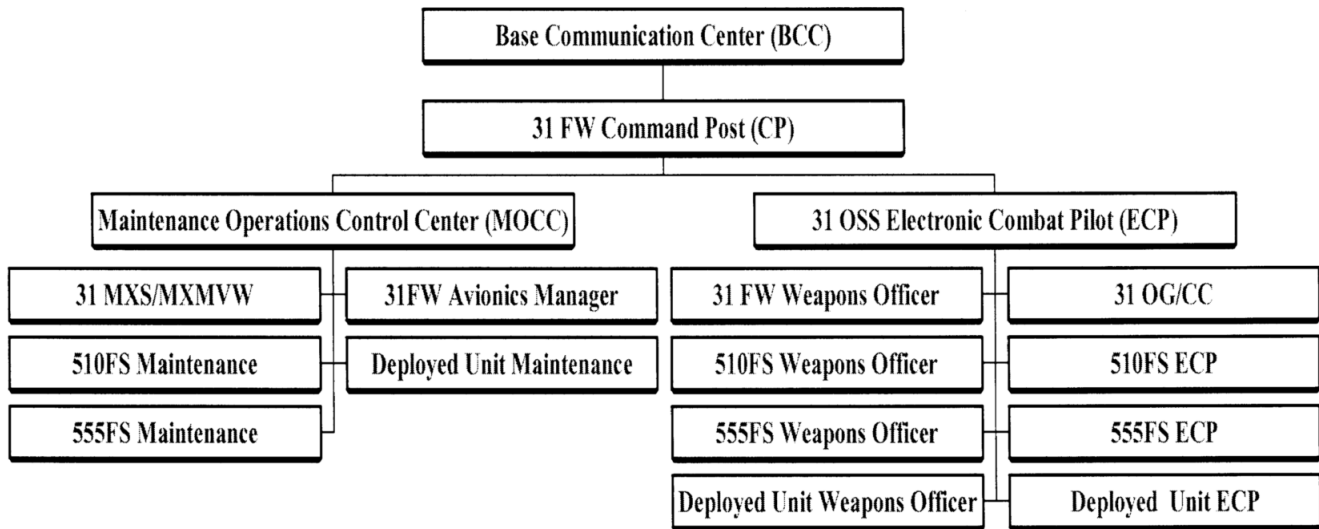
TCTO—Time Compliance Technical Order (Referred to as a TCT in EWIR messages)

ULM—Unit Loading Message

USAF—United States Air Force

Attachment 2

EWIR NOTIFICATION FLOW DIAGRAM



Attachment 3**31 OSS/OSK ECP PROCEDURES FOR EWIR**

A3.1. The 31 OSS ECP is responsible for the Electronic Warfare (EW) systems listed in Appendix A and will notify the appropriate 31 FW agencies with changes to these systems. In addition, the 31 OSS ECP will notify and assist the ECP of any USAF units deployed to the 31FW affected by a PACER WARE Message. When USAF CAF units deploy to the 31 FW in support of contingency operations the ECP will update Appendix B to reflect a current listing of EW systems deployed to the 31FW.

A3.2. In the 31 OSS ECP's absence, the alternate ECP will assume these responsibilities. The 31 OSS ECP will train and prepare all alternates to assume the responsibilities of the 31 OSS ECP in the 31 OSS ECP's absence. The ECP will provide the CP a list of alternate personnel to contact in his absence. The ECP will ensure all designated alternates are authorized to receive classified messages.

A3.3. See [Attachment 2](#) for a flow chart schematic of the notification process for an EWIR message.

A3.4. When notified of a PACER WARE / SERENE BYTE message the Command Post personnel will read the unclassified message title line to the ECP over the telephone. If the message pertains to an EW system listed in [Attachment 12](#), Appendix A or B, then the ECP will respond as described in paragraph [4.](#) of this instruction.

A3.5. When notified of a RIM the 31 OSS ECP will contact HQ USAFE/DOTW and ask if an IMP will follow. If HQ USAFE/DOTW confirms an IMP will follow then the 31 OSS ECP will ask HQ USAFE/DOT to send the unclassified portion of the IMP via unclassified email directly to the 31 OSS ECP. When received the 31 OSS ECP will respond to this IMP as described in paragraph [4.](#) of this instruction.

A3.6. In addition, the ECP will notify the 31 FW/CC, OG/CC, MXG/CC, and OSS/CC of all pertinent EWIR messages. Further, during all EWIR implementations, the ECP will, as required, provide periodic status updates to the 31 FW/CC, OG/CC, MXG/CC, and OSS/CC. Likewise, the 31 OSS ECP will ensure the squadrons' Weapon Officers or ECPs are informed of the latest EW changes immediately especially before EWIR implementation occurs.

A3.7. For PACER WARE Messages that affect the 31FW the ECP will give the squadrons a memo describing the impact on our tactics or EW systems. This memo will be included in the Weapons Read File. The 31 OSS ECP will work with 31 OSS/IN to update the 31FW *Smart Packs* with the latest EW changes.

A3.8. The 31 OSS ECP will file and catalog electronically all pertinent EWIR messages on the designated computer in the 31 OSS/OSK office.

Attachment 4**31 CS/SCBBD PROCEDURES FOR EWIR**

A4.1. This attachment establishes procedures for how the 31 CS/SCBBD will respond upon receipt of a PACER WARE/SERENE BYTE message.

A4.2. Upon receipt of any PACER WARE/SERENE BYTE message the BCC will immediately contact the 31 FW Command Post and confirm the CP received a copy of the message. If the CP has not received the message the BCC will provide the CP with a copy of the message. After confirmation that the CP received a copy of the message the BCC can then properly dispose of the message.

A4.3. The BCC will record the time and date of the message receipt and the time and date of confirmation with the CP along with name of the person contacted.

Attachment 5**31 FW/CP PROCEDURES FOR EWIR**

A5.1. This attachment establishes procedures for 31 FW/CP response to PACER WARE/SERENE BYTE messages.

A5.2. Upon receipt of a PACER WARE/SERENE BYTE message the CP will immediately notify the 31 OSS ECP and the 31 FW MOCC. If the 31 OSS ECP cannot be contacted, the CP will then contact an alternate listed on the PACER WARE / SERENE BYTE recall roster logging the date and name of all personnel notified. NOTE: Only the unclassified title will be read over unsecure lines.

A5.3. The CP will ensure dissemination of PACERWARE/SERENE BYTE messages following telephonic notifications. Electronic (NIPR/SIPR) will be forwarded over the appropriate system received. Hardcopy messages will always be delivered to the MOCC regardless of system of receipt. ECP will have to arrange pick-up from the Command Post of hardcopy AUTODIN messages.

A5.4. The CP will notify the Mission Director (if Battlestaff formed). When requested by the 31 OSS ECP, the CP will notify the 31 OG/CC and 31 MXG/CC.

A5.5. During reprogramming, the CP will provide notification assistance to the 31 OSS ECP if required.

A5.6. The CP will participate as a member of the EWIR Action Team when required by the 31 OSS ECP.

Attachment 6**31 FW/MOCC PROCEDURES FOR EWIR**

A6.1. When notified of a PACER WARE / SERENE BYTE message pertaining to an EW system listed in **Attachment 12**, Appendix A, the MOCC will respond as described in paragraph **4.** of this instruction.

A6.2. The MOCC will maintain an EWIR Roster supplied by each FS/MS of personnel cleared for classified message pick-up.

A6.3. During EWIR implementation the MOCC will maintain a log of reprogramming events including reprogramming start and completion times as well as any problems or anomalies encountered. The MOCC will submit this log to the ECP when requested.

A6.4. The MOCC will participate as a member of the EWIR Action Team when required by the 31 OSS ECP.

Attachment 7**31 MXS/MXMVW PROCEDURES FOR EWIR**

A7.1. The 31 MXS/MXMVW will maintain an updated letter with the MOCC listing personnel authorized to receive EWIR messages and data.

A7.2. Upon notification of a reprogramming message the 31 MXS/MXMVW will:

A7.2.1. Dispatch a courier to the MOCC if required to pick up the message.

A7.2.2. Open the MXMVW EWIR Chronological Events Log and enter the DTG of all significant events during reprogramming.

A7.2.3. Ensure the LGM, LGMV, and MXMVW supervision is aware that a PACER WARE / SERENE BYTE is in process.

A7.2.4. Prepare equipment needed to perform preprogramming including the Block II ILSE, MLVs, and the DCS. Perform any test procedures required.

A7.2.5. Download the data from the AWC MSEWDDS.

A7.3. When the EWIR data is received the 31 MXS/MXMVW will:

A7.3.1. Format and load the data into the ILSE or MLV.

A7.3.2. Load the program into an operational pod and verify the program is correct by using the Jam Display. Comply with all technical orders and EWIR TCTO data.

A7.3.3. Notify the 31 OSS ECP immediately if problems encountered.

A7.3.4. Reprogram MLVs in the shop and those arriving from the 510/555 FS.

A7.3.5. Reprogram the number of pods determined by the 31 OSS ECP after receiving implementation authorization from the 31 OSS ECP via telephone or written NIPRNET message.

A7.3.6. Change pod side panel placards to show reprogramming settings as well as write the new tape on the service code tag attached to each pod.

A7.3.7. Notify the 31 OSS ECP of all reprogramming actions and any difficulties encountered.

A7.3.8. Notify the 31 OSS ECP and MOCC when reprogramming is complete.

A7.4. The 31 MXS/MXMVW will return reprogrammed pods to their original configuration for SERENE BYTE exercise when directed by the 31 OSS ECP.

A7.5. Within one day of reprogramming termination the 31 MXS/MXMVW will update the pod status report on the shared drive. Subsequently, 31 MXS/MXMVW will send a message to the OSS/OSK ECP and 510/555 FS ECP with this report, a description of problems encountered, and recommendations for improvements. In addition, this report will include the total number of pods, the serial numbers and an explanation for any pods not reprogrammed.

A7.6. The 31 MXS/MXMVW will participate as a member of the EWIR Action Team when required by the 31 OSS ECP.

Attachment 8**510/555 FS/MA PROCEDURES FOR EWIR**

A8.1. Each squadron will maintain an updated letter with the MOCC listing personnel authorized to receive EWIR messages and data.

A8.2. Upon notification of a reprogramming commitment:

A8.2.1. The avionics specialist personnel will download the appropriate messages from the AWC MSEWDDS or pick-up the message from the MOCC.

A8.2.2. The Production Supervisor will coordinate with squadron operations to determine the priority and sequence to reprogram aircraft.

A8.3. When reprogramming the RWR and CMDS EW systems listed in Appendix A the avionics specialist personnel will:

A8.3.1. Download the reprogramming data from the AWC MSEWDDS or pick-up the data from the squadron or 31 OSS ECP.

A8.3.2. Load the data files onto the EDNA or appropriate machine. Confirm the PLM-4 machines have the most current software if an RWR PACERWARE was implemented.

A8.3.3. Reprogram the number of aircraft determined by the squadron ECP using the EDNA after receiving the implementation authorization from the squadron/31 OSS ECP.

A8.3.4. Ensure aircraft forms indicate reprogramming of the effected EW system.

A8.3.5. Return reprogrammed systems to their original configuration for SERENE BYTE exercises as directed by the squadron ECP or the 31 OSS ECP.

A8.3.6. Notify the squadron ECP of all reprogramming events and any problems encountered.

A8.4. For ALQ-131 ECM pod reprogramming requiring flightline reprogramming the avionics specialist personnel will:

A8.4.1. Acquire MLVs loaded with the new data from the 31 MXS/MXMVW.

A8.4.2. Reprogram the number of pods determined by the squadron ECP using the MLVs after receiving the implementation authorization from the squadron ECP.

A8.4.3. Change pod side panel placards to show reprogramming setting. Ensure aircraft forms on first page inside front cover indicate reprogramming of the pod and whether it is a combat or training tape.

A8.4.4. Return reprogrammed pods to their original configuration for SERENE BYTE exercises when directed by the squadron/31 OSS ECP.

A8.4.5. Notify the squadron ECP and 31 MXS/MXMVW of all reprogramming events and any problems encountered.

A8.5. The 510/555 FS/MA will notify the MOCC of reprogramming start and completion times.

A8.6. The 510/555 FS/MA will submit a report to the squadron ECP after completion of reprogramming. The report should include a detailed description of the reprogramming process, a description of problems encountered, and recommendations for improvement.

A8.7. The 510/555 FS/MA will participate as a member of the EWIR Action Team when the 31 OSS ECP convenes a meeting.

Attachment 9**510/555 FS ECP PROCEDURES FOR EWIR**

A9.1. Communication between the FS ECP and the 31 OSS ECP is critical to successful EWIR implementation and notification. The FS ECP will ensure the 31 OSS ECP can contact the FS ECP or a designated alternate.

A9.2. The FS ECP will work closely with the FS avionics specialists to gain a working knowledge of the procedures involved when reprogramming EW systems.

A9.3. The FS ECP will brief the FS/IN and ensure all squadron pilots are aware of latest deficiencies and changes to EW systems.

A9.4. After notification of a reprogramming commitment, the FS ECP will act as the overall FS coordinator for implementation within the squadron. The FS ECP will:

A9.4.1. Notify the FS Production Supervisor and avionics NCOIC.

A9.4.2. Print out a copy or pick-up the EWIR message from the 31 OSS ECP if required.

A9.4.3. Distribute EWIR message and data disks to the avionics specialist if required.

A9.4.4. Immediately notify the Production Supervisor and avionics NCOIC to begin reprogramming the number of aircraft and pods determined by the 31 OSS ECP after receiving implementation authority from the 31 OSS ECP.

A9.4.5. Notify the 31 OSS ECP of all reprogramming events and any problems encountered.

A9.4.6. Direct FS/MA to return all aircraft and pods to their original configuration for SERENE BYTE exercises when instructed by the 31 OSS ECP.

A9.5. The FS/ECP will submit a report via NIPRNET to the 31 OSS ECP within one day of reprogramming termination. This report should include a detailed description of the reprogramming process, description of problems encountered, pilots briefed, and recommendations for improvement.

A9.6. When tasked by the 31 OSS ECP the FS ECP will assume the 31 OSS ECP responsibilities when the 31 OSS ECP is absent.

A9.7. The FS ECP will participate as a member of the EWIR Action Team when the 31 OSS ECP convenes a meeting.

Attachment 10**31 OSS/IN PROCEDURES FOR EWIR**

A10.1. The 31 OSS/IN will monitor all available intelligence dissemination systems and MISREPs for changes in threat parameters and tactics. The 31 OSS/IN will:

A10.1.1. Notify the 31 OSS ECP of any relevant changes.

A10.1.2. Assist the 31 OSS ECP in preparing OCRs.

A10.2. Upon notification of an EWIR SIM or RIM the 31 OSS/IN will:

A10.2.1. Assist the 31 OSS ECP to ensure all pilots are aware of threat parameter/tactics changes and EW system deficiencies and/or changes.

A10.2.2. Update the Electronic Order of Battle (EOB) if required.

A10.2.3. Evaluate EWIR changes with the 31 OSS ECP for impact on EW system settings or tactical employment of EW equipment.

A10.2.4. Coordinate with the 31 OSS ECP for updates to the 31 FW *Smart Packs* reflecting the latest EW system and threat parameter changes.

A10.3. The 31 OSS/IN will participate as a member of the EWIR Action Team when required by the 31 OSS ECP.

Attachment 11**31 OSS/OSOB PROCEDURES FOR EWIR**

A11.1. This attachment establishes the procedures the 31 OSS/OSOB will follow when notified of an EWIR message.

A11.2. When notified of a PACER WARE / SERENE BYTE message the 31 OSS/OSOB will:

A11.2.1. Pick-up a copy of the message from MOCC if required.

A11.2.2. Contact as applicable the 31 MXS/MXMVW or the 510/555 FS/MA avionics specialist flight and provide any assistance needed.

A11.2.3. Cross flow information between both fighter squadrons and the 31 MXS/MXMVW to ensure a quick and efficient EWIR implementation.

A11.2.4. Work closely with the 31 OSS ECP and keep the 31 OSS ECP informed of any potential reprogramming problems.

A11.2.5. When requested by the 31 OSS ECP relay information and deliver messages from the 31 OSS ECP to the 510/555 FS/MA and the 31 MXS/MXMVW.

A11.2.6. Record tail numbers of aircraft reprogrammed and serial numbers of ECM pods reprogrammed.

A11.2.7. Record an explanation and physical location of 31 FW aircraft or ECM pods not reprogrammed.

A11.2.8. Submit an After Action Report to the 31 OSS ECP when requested. This report will include an explanation for 31 FW aircraft or ECM pods not reprogrammed.

A11.3. The 31 OSS/OSOB will maintain an updated letter with the MOCC listing a primary and an alternate to notify of an EWIR message. The 31 OSS/OSOB will ensure the primary and designated alternates can receive classified messages.

A11.4. The 31 OSS/OSOB will participate as a member of the EWIR Action Team when the 31 OSS ECP convenes a meeting.

Attachment 12**31 FW DEPLOYED ELECTRONIC WARFARE SYSTEM**

Appendix A

31 FW Electronic Warfare Systems

I. RWR (Radar Warning Receiver)

(a). ALR-56M

II. CMDS (Counter Measures Dispenser System)

(a). ALE-47

III. ECM (Electronic Counter Measures) Pod

(a). ALQ-131

(b). ALE-50

Appendix B

Deployed Electronic Warfare Systems

NOTE: *The following information is not current but provided only as an example.*

Spangdahlem AB/Shaw AFB (F16CJ):

I. RWR (Radar Warning Receiver)

(a). ALR-56M

II. CMDS (Counter Measures Dispenser System)

(a). ALE-47

III. ECM (Electronic Counter Measures) Pod

(a). ALQ-131

(b). ALE-50

Lakenheath AB (F15E):

I. RWR (Radar Warning Receiver)

(a). ALR-56C

II. CMDS (Counter Measures Dispenser System)

III. ECM (Electronic Counter Measures)